



MERCUISER SERVICE BULLETIN

Section: XII (Bulletins)

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Precautions to Observe When Installing, Servicing or Testing Power Trim or Power Tilt Systems with Large Reservoir Pump

PRECAUTIONS TO OBSERVE WHEN INSTALLING, SERVICING OR TESTING POWER TRIM OR POWER TILT SYSTEMS WITH LARGE RESERVOIR PUMP

1. When installing hydraulic oil lines -
 - a. Start threads with fingers so that they will not cross-thread and strip threads.
 - b. Do not tighten fittings excessively, as threads may strip. Maximum torque is 125 to 150 in. lbs. (22.2 to 26.6kg/cm).
2. Align pump valve body and gear assembly, tightening the 8 screws evenly to prevent pump motor shaft from binding.
3. Use clean, uncontaminated oil to fill the reservoir or when flushing system. This hydraulic system uses Quicksilver Formula 4 20W Oil.
4. By overfilling the pump reservoir and failing to remove the vent seal, the "O" ring gaskets may become damaged and cause pump body or motor replacement.
5. The hydraulic cylinders must be in the collapsed (up) position when filling the reservoir. Oil level should be even with the bottom of the oil filler hole.
6. Allow the pump motor to cool at least one minute if the pump stops during excessive use. An internal thermal circuit breaker protects the pump motor.
7. Any modification to the hydraulic system or assemblies without proper authority in writing from Kiekhaefer Mercury will void the warranty.
Warranty on hydraulic pumps will not be honored if -
 - a. Threads are stripped out of pump housing.
 - b. Contaminated oil, wrong oil or dirt is found in pump reservoir.
 - c. Modifications are made to pump which result in its malfunction.
8. Service notes:
 - a. Work area must be dirt and lint-free. The slightest amount of dirt may cause pump to malfunction.
 - b. Precision fitting of valves and gears requires that the valve body and gear cage assembly or control valve assembly be replaced as a unit.
 - c. These hydraulic pumps have a small metal can set over the inlet screen of the valve body and gear assembly. The can must be placed securely over the inlet screen.
 - d. Use liquid neoprene sparingly and do not allow it to get into the valve body and gear assembly.

NOTE: See the MerCruiser Service Manual, Miscellaneous Section X, for Power Trim and Power Tilt "Trouble Shooting Chart".